

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of: Pei-Haw Tsao  
Application Serial No.: 09/827,106  
Filed: April 5, 2001  
For: MATRIX FORM SEMICONDUCTOR PACKAGE SUBSTRATE HAVING AN  
ELECTRODE OF SERPENTINE SHAPE

Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

**CERTIFICATE UNDER 37 C.F.R. §3.73(b)  
ESTABLISHING RIGHT OF ASSIGNEE TO TAKE ACTION**

1. The assignee of the entire right, title and interest hereby seeks to take action in the PTO in this matter.

**IDENTIFICATION OF ASSIGNEE**

2. The assignee of this matter is:

**TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY**  
8, Li-Hsin Rd. 6  
Hsinchu Science Park  
Hsinchu, Taiwan 300-77, R.O.C.

**PERSON AUTHORIZED TO SIGN**

3. Daniel R. McClure  
Attorney for Assignee

4. A chain of title from the inventor(s) to the current assignee is shown below:

- a. From: Pei-Haw TSAO, Chender HUANG, Chung-Yu Wang  
To: Taiwan Semiconductor Manufacturing Company  
Recorded in PTO: Reel: 011686 Frame: 0597

#### **DECLARATIONS**

5. I, the undersigned, have reviewed all the documents in the chain of title of the

☒ application  
☐ patent

matter identified above and, to the best of my knowledge and belief, title is in the assignee identified above.

6. I hereby declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further, that these statements are made with the knowledge that willful false statements, and the like so made, are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

7. I, the person signing below, aver that I am empowered to sign this statement on behalf of the assignee.

/Daniel R. McClure/

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**Daniel R. McClure, Reg. No. 38,962**

**THOMAS, KAYDEN, HORSTEMEYER  
& RISLEY, L.L.P.**

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Docket No. 252016-3320